

## ABSTRACT OF THE DISCLOSURE

The present invention relates to a channel down mixing apparatus for a car audio system for reducing manufacture cost and switching noise by implementing a sub-woofer down mixing portion, a buffer portion and a switching circuit portion to one  
5 body with an application of simple circuit elements thereto. The channel down mixing apparatus for a car audio system, having a channel down mixing function for down mixing a sub-woofer signal to an L (left) channel and an R (right) channel when a user does not select a sub-woofer speaker, includes: a pair of buffers for amplifying an L channel input signal and an R channel input signal to a designated gain, respectively; a  
10 pair of FETs for mixing the sub-woofer signal with the L channel input signal and the R channel input signal when the user does not select the sub-woofer speaker, and for outputting a mixed signal to each of the buffers; a first transistor being turned on when the user turns on the sub-woofer speaker; and a second transistor and a third transistor, which are turned off when the first transistor is turned on and turned off when the first  
15 transistor is turned on, reducing the L channel input signal and the R channel input signal to a designated level, respectively.